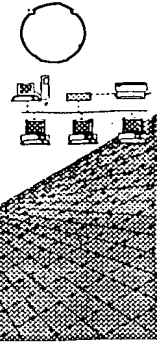


*But*

5640

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/763,978

Source: OIP

Date Processed by STIC: 5/16/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

**Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows patent applicants to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

# Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/263,978

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1        Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2        Wrapped Aminos      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3        Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4        Misaligned Amino Acid      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs  
Numbering      between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5        Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6        Variable Length      Sequence(s)        contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and  
indicate in the (ix) feature section that some may be missing.
- 7        PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid  
sequence(s)       . Normally, PatentIn would automatically generate this section from the  
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section  
to the subsequent amino acid sequence. **This applies primarily to the mandatory <220>-<223>**  
**sections for Artificial or Unknown sequences.**
- 8        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence:  
(OLD RULES)      (2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence.  
(NEW RULES)      <210> sequence id number  
<400> sequence id number  
000
- 10        Use of n's or Xaa's      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents
- 11        Use of "Artificial"      Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.  
(NEW RULES)      Valid response is Artificial Sequence.
- 12        Use of "Artificial"      Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.  
(NEW RULES)      Valid response is Artificial Sequence.
- 13 ✓ PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted  
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/763,978

DATE: 05/16/2001  
TIME: 13:29:15

Input Set : A:\Dex-0043.app

Output Set: N:\CRF3\05162001\1763978.raw

-> 2 <140> CURRENT APPLICATION NUMBER: US/09/763,978  
-> 2 <141> CURRENT FILING DATE: 2001-02-28  
-> 2 <151> PRIOR FILING DATE: 1998-09-02  
-> 0 <110> APPLICANT:  
-> 0 <120> TITLE INVENTION:  
-> 0 <130> FILE REFERENCE:  
4 <160> NUMBER OF SEQ ID NOS: 15  
6 <170> SOFTWARE: PatentIn Ver. 2.0  
8 <210> SEQ ID NO: 1  
9 <211> LENGTH: 2587  
10 <212> TYPE: DNA  
11 <213> ORGANISM: Homo sapiens  
13 <400> SEQUENCE: 1  
14 ggaaggcagc gggcagctcc actcagccag taccagata cgctgggaac cttccccagc 60  
15 catggcctcc ctggggcaga tcctcttctg gagcataatt agcatcatca ttattctggc 120  
16 tggagcaatt gcactcatca ttggtcttgg tatttcaggg agacactcca tcacagtcac 180  
17 tactgtcgcc tcagctggga acattgggga ggatggaatc ctgagctgca cttttgaacc 240  
18 tgacatcaaa ctttctgata tcgtgataca atggctgaag gaaggtgtt taggcttgg 300  
19 ccatgagttc aaagaaggca aagatgagct gtcggagcag gatgaaatgt tcagaggccg 360  
20 gacagcagtg tttgctgata aagtgatagt tggcaatgcc tctttgcggc tgaaaaacgt 420  
21 gcaactcaca gatgctggca cctacaaatg ttatatcatc acttctaaag gcaaggggaa 480  
22 tgctaaccct gagtataaaa ctggagcctt cagcatgccg gaagtgaatg tggactataa 540  
23 tgccagctca gagaccttgc ggtgtgaggg tccccgatgg ttccccagc ccacagtgg 600  
24 ctgggcatcc caagttgacc agggagccaa cttctcgga gtctccaata ccagctttga 660  
25 gctgaactct gagaatgtga ccatgaaggt tgtgtctgtg ctctacaatg ttacgatcaa 720  
26 caacacatac tctgtatga ttgaaaatga cattgccaaa gcaacagggg atatcaaagt 780  
27 gacagaatcg gagatcaaaa ggcggagtc cctacagctg ctaaaactcaa aggccttctc 840  
28 gtgtgtctct tctttctttg ccatacagct ggcacttctg cctctcagcc cttacctgat 900  
29 gctaaaaata tgtgccttgg ccacaaaaaa gcatgcaaa gtcattgttac aacagggatc 960  
30 tacagaacta ttaccaccac agatatgacc tagttttata tttctgggag gaaatgaatt 1020  
31 catatctaga agtctggagt gagcaaacaa gagcaagaaa caaaaagaag ccaaaagcag 1080  
32 aaggctccaa tatgaacaag ataaatctat cttcaaagac atattagaag ttgggaaaat 1140  
33 aattcatgtg aactagacaa gtgtgttaag agtgataagt aaaatgcacg tggagacaag 1200  
34 tgcatcccca gatctcaggg acctccccct gctgtcacc tggggagtga gaggacagga 1260  
35 tagtgcatgt tctttgtctc tgaattttta gttatatgtg ctgtaatgtt gctctgagga 1320  
36 agcccttggg aagtctatcc caacatatcc acatcttata ttccacaaat taagctgtag 1380  
37 tatgtacctt aagacgctgc taattgactg ccacttcgca actcaggggc ggetgcattt 1440  
38 tagtaatggg tcaaatgatt cactttttat gatgcttcca aaggtgacct ggcttctctt 1500  
39 cccaactgac aaatgccaaa gttgagaaaa atgatcataa ttttagcata aacagagcag 1560  
40 tcggcgacac cgattttata aataaactga gcaccttctt tttaaacaaa caaatgcggg 1620  
41 tttatttctc agatgatgtt catccgtgaa tggtcaggg aaggacctt caccctgact 1680  
42 atatggcatt atgtcatcac aagctctgag gcttctcctt tccatcctgc gtggacagct 1740  
43 aagacctcag ttttcaatag catctagagc agtgggactc agctggggtg atttcgccc 1800  
44 ccatctccgg gggaatgtct gaagacaatt ttgggttacct caatgagga gtggaggagg 1860  
45 atacagtgtc actaccaact agtggataaa ggccagggat gctgctcaac ctctaccat 1920  
46 gtacaggagc tctccccatt acaactaccc aatccgaagt gtcaactgtg tcaggactaa 1980  
47 gaaaccttgg ttttgagtag aaaagggcct ggaagaggg gagccacaa atctgtctgc 2040

Does Not Comply  
Corrected Diskette Needed  
see p. 6 for explanation  
see  
pg 5, 6

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/763,978

DATE: 05/16/2001

TIME: 13:29:15

Input Set : A:\Dex-0043.app

Output Set: N:\CRF3\05162001\I763978.raw

```

48 ttctcacatt agtcattggc aaataagcat tctgtctctt tggctgctgc ctcagcacag 2100
49 agagccagaa ctctatcggg caccaggata acatctctca gtgaacagag ttgacaaggc 2160
50 ctatgggaaa tgccatgatg gattatcttc agcttgttga gcttctaagt ttctttccct 2220
51 tcattctacc ctgcaagcca agttctgtaa gagaaatgcc tgagttctag ctcagggttt 2280
52 ctactctga atttagatct ccagaccctt cctggccaca attcaaatta aggcaacaaa 2340
53 catatacctt ccatgaagca cacacagact tttgaaagca aggacaatga ctgcttgaat 2400
54 tgaggccttg aggaatgaag ctttgaagga aaagaatact ttgtttccag ccccttccc 2460
55 acactcttca tgtgttaacc actgccttcc tggaccttgg agccacggtg actgtattac 2520
56 atgttggtat agaaaactga ttttagagtt ctgacgttcc aagagaatga ttaaatatac 2580
57 atttcct 2587
59 <210> SEQ ID NO: 2
60 <211> LENGTH: 2070
61 <212> TYPE: DNA
62 <213> ORGANISM: Homo sapiens
64 <400> SEQUENCE: 2
65 cacagagaga ggcagcagct tgctcagcgg acaaggatgc tgggcgtgag ggaccaaggc 60
66 ctgcccctga cctgggccc cctcagccag tgctgaccag ggacttctga cctgctggcc 120
67 agccaggacc tgtgtgggga ggccctcctg ctgcccctgg gtgacaatct cagctccagg 180
68 ctacagggag accggggagga tcacagagcc agcatgttac aggatcctga cagtgatcaa 240
69 cctctgaaca gcctcgatgt caaacccctg cgcacacccc gtatcccat ggagaccttc 300
70 agaaaggctg ggatcccat catcatagca ctactgagcc tggcgagtat catcattgtg 360
71 gttgtcctca tcaaggtgat tctggataaa tactacttcc tctgogggca gcctctccac 420
72 ttcattccga ggaagcagct gtgtgacgga gagctggact gtcccttggg ggaggacgag 480
73 gagcactgtg tcaagagctt ccccgagggg cctgcagtgg cagtccgctt ctccaaggac 540
74 cgatccacac tgcaggtgct ggactcggcc acaggggaact ggttctctgc ctgtttcgac 600
75 aacttcacag aagctctcgc tgagacagcc tgtaggcaga tgggctacag cagcaaacc 660
76 actttcagag ctgtggagat tggcccagac caggatctgg atgttgttga aatcacagaa 720
77 aacagccagg agcttcgcat gcggaactca agtgggccct gtctctcagg ctccctggtc 780
78 tccctgcact gtcttgccct tgggaagagc ctgaagaccc cccgtgtggt ggggtgggag 840
79 gaggcctctg tggattcttg gccttggcag gtcagcatcc agtacgacaa acagcacgtc 900
80 tgtggaggga gcattcctga ccccactggt gtccctcagc gcagcccact gcttcaggaa 960
81 acataccgat gtgttcaact ggaaggtgcg ggcaggctca gacaaactgg gcagcttccc 1020
82 atccctggct gtggccaaga tcattcatcat tgaattcaac cccatgtacc ccaaagacaa 1080
83 tgacatcgcc ctcatgaagc tgcagttccc actcacttcc tcaggcacag tcaggcccat 1140
84 ctgtctgccc ttctttgatg aggagctcac tccagccacc ccaactctga tcattggatg 1200
85 gggctttacg aagcagaatg gaggaagat gtctgacata ctgtgcagc cgtcagtcca 1260
86 ggtcattgac agcacacggt gcaatgcaga cgatgcgtac cagggggaag tcaccgagaa 1320
87 gatgatgtgt gcagcatcc cgggaagggg tgtggacacc tgccaggggtg acagtgggtg 1380
88 gcccctgatg taccaatctg accagtggca tgtgggtggc atcgttagct ggggctatgg 1440
89 ctgcgggggc ccgagcacc caggagtata caccaaggte tcagcctatc tcaactggat 1500
90 ctacaatgtc tggaaggctg agctgtaatg ctgctgcccc tttgcagtgc tgggagccgc 1560
91 ttccctctcg ccctgcccac ctggggatcc cccaaagtca gacacagagc aagagtcccc 1620
92 ttgggtacac cctctgccc acagcctcag catttcttgg agcagcaaag ggcctcaatt 1680
93 cctataagag accctcgag ccagagggc cccagagggc gtcagcagcc ctagctcgcc 1740
94 cacacttggt gctcccagca tcccagggag agacacagcc cactgaacaa ggtctcaggg 1800
95 gtattgctaa gccaaagaag aactttccca cactactgaa tggaaagcag ctgtcttgta 1860
96 aaagccagag tcaactgtgg ctggagagga gaaggaaagg gtctgcgcca gccctgtccg 1920
97 tcttcacca tcccaagcc tactagagca agaaaccagt tgtaataata aatgcactgc 1980
98 cctactgttg gtatgactac cgttacctac tgttgcatth ttattacagc tatggccact 2040

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/763,978

DATE: 05/16/2001

TIME: 13:29:15

Input Set : A:\Dex-0043.app

Output Set: N:\CRF3\05162001\I763978.raw

```

99 attattaaag agctgtgttaa catctctggc 2070
101 <210> SEQ ID NO: 3
102 <211> LENGTH: 1709
103 <212> TYPE: DNA
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE: 3
107 agcagactca caccagaact acattccctg gccccctgcc tgtgtgcttc tggccaggcc 60
108 ttggttgcca agtctgaccc gagaaaagga tctgcagaaa atcagactat gggatcaactt 120
109 tgtttgtgca ttgggaatga cattctttcc cccccagga aaacctttg gactttcaga 180
110 gacattgttg ctagccaacc acatggtcag cctcaaagtt gagaggctca gtaaccctcc 240
111 tatccctaga gaattccaaa gtgtggatgt aatttaacta gaaagccatt ggtgactatc 300
112 tgtgatccctc tggaagtatg ctatgtttgt tatatcttgc atccaaagcc agaggggaacc 360
113 acaatgacta gtaaaacggt ggtctcaatg cccacttagc ctctgcctct gaatttgacc 420
114 atagtggcgt tcagctgata gagcgggaag aagaaatatg cattttttat gaaaaataa 480
115 atatccaaga gaagatgaaa ctaaatggag aaattgaaat acatctactg gaagaaaaga 540
116 tccaattcct gaaaatgaag attgctgaga agcaaagaca aatttgtgtg acccagaaat 600
117 tactgccagc caagaggtcc ctggatgccg acctagctgt gctccaaatt cagttttcac 660
118 agtgtacaga cagaattaaa gacctggaga aacagttcgt aaagcctgat ggtgagaata 720
119 gagctcgctt ccttccaggg aaagatctga ccgaaaaaga aatgatccaa aaattagaca 780
120 agctggaact acaactggcc aagaaggagg agaagctgct ggagaaggat ttcactctatg 840
121 agcaggcttc caggctcaca gacaggctct gcagcaaaac tcagggtctgc aagcaggaca 900
122 cactgctctt agccaagaag atgaatggct atcaaagaag gatcaaaaat gcaactgaga 960
123 aaatgatggc tcttgttctg gagctgtcca tgaaacaagc cctaaccatt gaactccaaa 1020
124 aggaagttag ggagaaagaa gaattcatct tcacttgcaa ttccaggata gaaaaaggtc 1080
125 tgccactcaa taaggaaatt gagaaagaat ggttgaaagt ccttcgagat gaagaaatgc 1140
126 acgccttggc catcgctgaa aagtctcagg agttcttggg agcagataat cgccagctgc 1200
127 ccaatggtgt ttacacaact gcagagcagc gtccgaatgc ctacatccca gaagcagatg 1260
128 ccactcttcc tttgccaaaa ccttatggtg ctttggctcc ttttaaacc agtgaacctg 1320
129 gagccaatat gaggcacata aggaaacctg ttataaagcc agttgaaatc tgaatatgtg 1380
130 aacaaatcca ggcctctcaa ggaaaagact tcaaccaggc ttcttgttac ccacaggtga 1440
131 aaaatgtgag cataatactt ctaataattat tgataagtaa ggtaaccaca attagtcagc 1500
132 aacagagtac aacagggttt ctatttacc accaactact atacctttca tgacgttgaa 1560
133 tgggacatag aactgtccta catttatgtc aaagtatata tttgaatcgc ttatatattc 1620
134 tttttcactc tttatatgta gtacattcca gaaatttgta gtaggcaagg tgctataaaa 1680
135 atgcactaaa aataaatctg ttctcaatg 1709
137 <210> SEQ ID NO: 4
138 <211> LENGTH: 257
139 <212> TYPE: DNA
140 <213> ORGANISM: Homo sapiens
142 <400> SEQUENCE: 4
143 ttaatgggta agtatttttt atatgcttta gctatagcta aagaaaactg atacttaaca 60
144 aagttgaata gtattattca ctggtgctcc taaaatattg tttttcagtg taaaatatgc 120
145 atatcttcta tatttaatat gaaagctctg aaatgtatca gacagaagg gatttcagtt 180
146 tgcaaataat gagcaatgta gcaattttta cacatttcat aaatatatat ttgtcattg 240
147 gtggagagca ccatttg 257
149 <210> SEQ ID NO: 5
150 <211> LENGTH: 359
151 <212> TYPE: DNA
152 <213> ORGANISM: Homo sapiens

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/763,978

DATE: 05/16/2001  
TIME: 13:29:15

Input Set : A:\Dex-0043.app  
Output Set: N:\CRF3\05162001\I763978.raw

```

154 <400> SEQUENCE: 5
155 gcctgagagc acttagcggt catgagtgtc cccaccatgg cctggatgat gcttctcctc 60
156 ggactccttg cttatggatc aggtcaggga gtggattctc agactgtggt gacccaagag 120
157 ccatcgttat cagtgtcccc tggagggaca gtcacactca cttgtggctt ggctctgac 180
158 tcagtctcta ctaatttctt cccacactgg taccagcaga cccagacca ggctccacgc 240
159 acgtcatctc acagcacaag cactcgtctc tctgggggtc ctgategttt ccttggtccc 300
160 atccttggga acaaagctgc cctcaccatt acgggggccc aggcatga tgaatctga 359
162 <210> SEQ ID NO: 6
163 <211> LENGTH: 1372
164 <212> TYPE: DNA
165 <213> ORGANISM: Homo sapiens
167 <220> FEATURE:
168 <221> NAME/KEY: unsure
169 <222> LOCATION: (6)
171 <220> FEATURE:
172 <221> NAME/KEY: unsure
173 <222> LOCATION: (9)
175 <400> SEQUENCE: 6
176 ccttanagnc ttggttgcca aacagaatgc ccatatccgt cttacttgtg aggaagcttg 60
177 ccttggggcg cctctgctgg ccctcctgaa gctaacaggg gcgagtgtc ggtggtttac 120
178 aaattgcctc catgcagact atgaaactgt tcagcctgct atagttagat ctctggcact 180
179 ggcccaggag gtcttgacaga tttgcagatc aaggagaacc caggagtctc aaagaagcgg 240
180 ctagttaaagg tctctgagat ccttgcaacta gctacatcct cagggttaga ggaagatggc 300
181 ttccagaagc atgcggtgc tctattgct gagctgcctg gccaaaacag gactcctggg 360
182 tgatatcatc atgagaccca gctgtgctcc tgggatgggt ttaccacaag tccaattgct 420
183 atggttactt caggaagctg aggaactggg ctgatgccga gctcgagtgt cagtcttacg 480
184 gaaacggagc ccacctggca tctatcctga gtttaaagga agccagcacc atagcagagt 540
185 acataagtgg ctatcagaga agccagccga tatggattgg cctgcacgac ccacagaaga 600
186 ggcagcagtg gcagtggatt gatggggcca tgtatctgta cagatcctgg tctggcaagt 660
187 ccatgggttg gaacaagcac tgtgtgaga tgagctccaa taacaacttt ttaacttga 720
188 gcagcaacga atgcaacaag cgccaacact tctgtgcaa gtaccgacca tagagcaaga 780
189 atcaagattc tgctaactcc tgcacagccc cgtcctcttc cttctgcta gcctggctaa 840
190 atctgctcat tatttcagag gggaaaccta gcaaactaag agtgataagg gccctactac 900
191 actggctttt ttaggcttag agacagaaac tttagcattg gccagtagt ggcttctagc 960
192 tctaaatggt tgcccgcga tccctttcca cagtatcctt cttccctcct cccctgtctc 1020
193 tggtgtctc gagcagtcta gaagagtga tctccagcct atgaaacagc tgggtctttg 1080
194 gccataagaa gtaaagattt gaagacagaa ggaagaaact caggagtaag cttctagccc 1140
195 ccttcagctt ctacacctt ctgccccttc tccattgctt gcacccacc ccagccactc 1200
196 aactcctgct tgtttttcct ttggccatgg gaagggttac cagtagaatc cttgctaggt 1260
197 tgatgtgggc catacattcc tttaataaac cattgtgtac ataagagggt gctgtgttcc 1320
198 agttcagtaa atggtgaatg tggaaaagtg aaataagacc aagaaataca aa 1372
200 <210> SEQ ID NO: 7
201 <211> LENGTH: 291
202 <212> TYPE: DNA
203 <213> ORGANISM: Homo sapiens
205 <220> FEATURE:
206 <221> NAME/KEY: unsure
207 <222> LOCATION: (277)
209 <400> SEQUENCE: 7

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/763,978

DATE: 05/16/2001

TIME: 13:29:15

Input Set : A:\Dex-0043.app

Output Set: N:\CRF3\05162001\I763978.raw

210 agaatggtag tagtaagaag aagaaaaata gaggatctga atgtattttt aaggtagagt 60  
 211 ccactggact tagagatgga ttgaatgtgg aagattaagg aaaggagaa atgaaagata 120  
 212 gtcttaggtt tcattctcag atgactgggt gaacagcagt gttcttttct aagatgggga 180  
 213 agactaggga aaagagccag ttctgtattg agcatattat atttaagaca atcccatctg 240  
 214 ggtccaaaga caatgttgat ttttttttct agatacntgc ctttagacc t 291  
 216 <210> SEQ ID NO: 8  
 217 <211> LENGTH: 1275  
 218 <212> TYPE: DNA  
 219 <213> ORGANISM: Homo sapiens  
 221 <220> FEATURE:  
 222 <221> NAME/KEY: unsure  
 223 <222> LOCATION: (410)  
 225 <220> FEATURE:  
 226 <221> NAME/KEY: unsure  
 227 <222> LOCATION: (728)..(756)  
 229 <220> FEATURE:  
 230 <221> NAME/KEY: unsure  
 231 <222> LOCATION: (957)  
 233 <400> SEQUENCE: 8  
 234 attctagaac atatgtataa gctaaaaaca gtattttact cagatcagta gttatcgtgt 60  
 235 ctatcagcta taaaaaaaat caactgccag ccaagaactt taaaacttta agctgtgtat 120  
 236 tatagaaccg ttttgtgtag cattggaata ttgtccattt tgtaagtcac tgtgaatgtt 180  
 237 cttaattatc agcttgaagg tatttttgta ttaaaagtgg acattgaaga acctaatgtg 240  
 238 atgatgggat ttggggccag tagtgaaagt atgtttcctc taaaatattt ccctaaacag 300  
 239 tggatatacat ggttatttta ttatgagatt tgtatatgtt ctgtgtttct ctgtgaacaa 360  
 240 tgtttcagtc tctctgtcac catatgtaag gggaaagcca caaatatagn actacattgc 420  
 241 acaaaaactaa aattgttaat tacaagaaaa tataggtgct taccttttga aggtttatta 480  
 242 atacatatgg ttgtcacaaat acgtatatat gataaatggg gtacatatat agatgtttat 540  
 243 ggtgtataaa tttttctata cccaattaga attatcttcc tgattcttta ttcaataaca 600  
 244 tgctaattcc tcttctatgt tctatagtga cagaatgcta acttttctta taccctggca 660  
 245 gaggacagag gagtctgggc taggatgggg aactgaattt ttgaacgaaa aggaaagaga 720  
 246 aaggatgnnn nnnnnnnnnn nnnnnnnnnn nnnnnntaat gtttcttagt cattttgatt 780  
 247 ggccatttga acagtctaca agtttaacgt tatttccagt gaagtaggat ggctgacctt 840  
 248 gcaatacatg tttcttcaaa agggtaaaaca tgcttttagt acctaaagct aaattttgta 900  
 249 catttgacat caggggtggt ataagtactg cacttaatac aaagctattt ctcaatngtg 960  
 250 ttatttttga gacaaatttt tcttcaccaa taactctctg ttggtagctt tttgttttgt 1020  
 251 aaaaattgag agatggcaat gcttatctca accagattat ccatctgcag aattaaggta 1080  
 252 tgcaactggt aaataaaaga caaatgctcc agtttgtctt tctcaacctt tgagttctta 1140  
 253 acctttgagt taaaacctga tctaaaatagt gggaaatgtc ttggtttacag taaggttttc 1200  
 254 ttgggaagga tcttggtttt gtgatctatt tgtgaattaa ggagtagatg ttaaccatta 1260  
 255 ttttatagat aagtg 1275  
 257 <210> SEQ ID NO: 9  
 258 <211> LENGTH: 2479  
 259 <212> TYPE: DNA  
 260 <213> ORGANISM: Homo sapiens  
 262 <400> SEQUENCE: 9  
 263 gtcataattga acattccaga tacctatcat tactcgatgc tgttgataac agcaagatgg 60  
 264 ctttgaaactc agggtcacca ccagctattg gaccttacta tgaaaacctt ggataccaac 120  
 265 cggaaaaccc ctatcccgcg cagcccactg tggccccac tgtctacgag gtgcatccgg 180

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

<110>  
<120>  
<140>  
<141>  
<150>

insert the  
mandatory  
numeric identifiers  
and responses delete this  
~~SEQUENCE LISTING~~

9/763,978 6

☐  
<151> 1998-09-02

☐

☐  
<160> 15

☐

☐  
<170> PatentIn Ver. 2.0

see item 13 on  
Error Summary  
sheet



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/763,978

DATE: 05/16/2001

TIME: 13:29:16

Input Set : A:\Dex-0043.app

Output Set: N:\CRF3\05162001\I763978.raw

:2 M:270 C: Current Application Number differs, Replaced Current Application No  
:2 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
:2 M:289 W: Identifier Missing or Out-Of-Order, <150> PRIOR APP NO  
:0 M:201 W: Mandatory field data missing, APPLICANT NAME  
:0 M:201 W: Mandatory field data missing, TITLE INVENTION  
:0 M:201 W: Mandatory field data missing, FILE REFERENCE  
:176 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:6  
:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
:214 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7  
:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
:240 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8  
:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
:246 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8  
:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
:249 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8  
:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
:363 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12  
:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
:367 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12  
:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
:369 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12  
:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12